

ABSTRACT OF THE DISCLOSURE

A bent axis pump/motor includes a back plate positioned within a casing, and a check valve positioned in the back-plate, the check valve configured to control passage of fluid from within the casing to an interior of the back plate. A yoke, coupled to the back plate, includes trunnions, positioned within respective apertures in the casing, upon which the yoke rotates. Bearings, occupying less than the complete circumference of the respective trunnion, are positioned between each of the trunnions and respective inner walls of the apertures. Trunnion apertures, for passage of fluid, are positioned in a portion of the circumference not occupied by the respective bearing. A valve positioned within the casing selectively couples high- and low-pressure fluid to the trunnions. Fluid supply channels, formed integrally with the casing, transmit fluid from the valve to the trunnions via fluid apertures provided within the apertures in the casing.